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FILE 'HOME' ENTERED AT 17:28:41 ON 14 OCT 2005

=> file medline, uspatful, dgene,embase, wpids, biotechds, biosis, scisearch
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 17:29:24 ON 14 OCT 2005

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=> s human lactoferrin production
3 FILES SEARCHED...

L1 9 HUMAN LACTOFERRIN PRODUCTION

=> d l1 ti abs ibib tot

L1 ANSWER 1 OF 9 USPATFULL on STN

TI Humanized lactoferrin and uses thereof

AB This invention relates, generally, to lactoferrin and, more specifically, to immobilized humanized lactoferrin and uses thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:325029 USPATFULL
TITLE: Humanized lactoferrin and uses thereof
INVENTOR(S): Braun, Steven O., Oneonta, NY, UNITED STATES
Van Belzen, Nico, Veghel, NETHERLANDS
Nimmagudda, Ram, Oneonta, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003229011	A1	20031211
APPLICATION INFO.:	US 2002-326269	A1	20021223 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-342747P	20011228 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NIXON & VANDERHYE, PC, 1100 N. GLEBE ROAD, 8TH FLOOR, ARLINGTON, VA, 22201-4714	
NUMBER OF CLAIMS:	15	
EXEMPLARY CLAIM:	1	
LINE COUNT:	432	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 2 OF 9 USPATFULL on STN

TI METHODS FOR TREATMENT AND PREVENTION OF HELICOBACTER PYLORI INFECTION USING LACTOFERRIN

AB The present invention is directed to methods for using lactoferrin as a therapeutic and/or prophylactic compound to treat and/or prevent infections caused by enteropathogens such as H. pylori. The present invention is directed to the treatment or prevention of diseases and disorders resulting from infection by enteropathogens such as H. pylori including histological gastritis, functional dyspepsia, duodenal ulcers, gastric ulcers, gastric cancer, chronic renal failure, HIV, pernicious

anemia, Zollinger-Ellison syndrome and colonic polyps. The present invention is further directed to novel formulations and compositions comprising lactoferrin and pharmaceutically acceptable carriers, excipients and/or adjunct companion therapies such as one or more antibiotics.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:27441 USPATFULL
TITLE: METHODS FOR TREATMENT AND PREVENTION OF HELICOBACTER
PYLORI INFECTION USING LACTOFERRIN
INVENTOR(S): CONNEELY, ORLA M., HOUSTON, TX, UNITED STATES
WARD, PAULINE P., HOUSTON, TX, UNITED STATES
HEADON, DENIS R., HOUSTON, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002016289	A1	20020207
APPLICATION INFO.:	US 1999-257905	A1	19990225 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1995-457469, filed on 1 Jun 1995, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	HOWREY SIMON ARNOLD & WHITE, LLP, BOX 34, 301 RAVENSWOOD AVE., MENLO PARK, CA, 94025		
NUMBER OF CLAIMS:	26		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	23 Drawing Page(s)		
LINE COUNT:	1697		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 3 OF 9 USPATFULL on STN

TI Expression of processed recombinant lactoferrin and lactoferrin polypeptide fragments from a fusion product in Aspergillus

AB The subject invention provides for the production of lactoferrins and lactoferrin polypeptide fragments using the host cells Aspergillus in combination with novel plasmid constructs. More specifically, the subject invention provides novel vector constructs capable of producing lactoferrins and lactoferrin polypeptide fragments in Aspergillus host cells. More particularly, the subject invention provides for novel plasmid constructs suitable for use with Aspergillus and especially Aspergillus awamori, niger and oryzae host cells, which enables them to produce large amounts of recombinant lactoferrins and lactoferrin polypeptide fragments.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2000:80567 USPATFULL
TITLE: Expression of processed recombinant lactoferrin and lactoferrin polypeptide fragments from a fusion product in Aspergillus
INVENTOR(S): Conneely, Orla M., Houston, TX, United States
Headon, Denis R., Galway, Ireland
O'Malley, Bert W., Houston, TX, United States
PATENT ASSIGNEE(S): Agennix, Inc., Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6080559		20000627
APPLICATION INFO.:	US 1998-107075		19980629 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1996-691123, filed on 1 Aug 1996, now patented, Pat. No. US 5955316 which is a continuation of Ser. No. US 1994-303009, filed on 2 Nov 1994, now patented, Pat. No. US 5571697, issued on 5		

Nov 1996 which is a continuation-in-part of Ser. No. US 1993-145681, filed on 28 Oct 1993, now patented, Pat. No. US 5571691, issued on 11 Nov 1996 which is a continuation-in-part of Ser. No. US 1992-967947, filed on 27 Oct 1992, now abandoned which is a continuation of Ser. No. US 1989-348270, filed on 5 May 1989, now abandoned, said Ser. No. US 145681 which is a continuation of Ser. No. US 1994-250308, filed on 27 May 1994, now patented, Pat. No. US 5571896, issued on 5 Nov 1996 which is a continuation-in-part of Ser. No. US 1992-873304, filed on 24 Apr 1992, now abandoned

DOCUMENT TYPE: Utility
 FILE SEGMENT: Granted
 PRIMARY EXAMINER: Achutamurthy, Ponnathapu
 ASSISTANT EXAMINER: Moore, William W.
 LEGAL REPRESENTATIVE: Halluin, Albert P., Smith, J. DavidHowrey & Simon
 NUMBER OF CLAIMS: 3
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 16 Drawing Figure(s); 59 Drawing Page(s)
 LINE COUNT: 1897
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 4 OF 9 USPATFULL on STN

TI Expression of processed recombinant lactoferrin and lactoferrin polypeptide fragments from a fusion product in aspergillus
 AB The subject invention provides for the production of lactoferrins and lactoferrin polypeptide fragments using the host cells Aspergillus in combination with novel plasmid constructs. More specifically, the subject invention provides novel vector constructs capable of producing lactoferrins and lactoferrin polypeptide fragments in Aspergillus host cells. More particularly, the subject invention provides for novel plasmid constructs suitable for use with Aspergillus and especially Aspergillus awamori, niger and oryzae host cells, which enables them to produce large amounts of recombinant lactoferrins and lactoferrin polypeptide fragments.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1999:113604 USPATFULL
 TITLE: Expression of processed recombinant lactoferrin and lactoferrin polypeptide fragments from a fusion product in aspergillus
 INVENTOR(S): Conneely, Orla M., Houston, TX, United States
 Headon, Denis R., Galway, Ireland
 O'Malley, Bert W., Houston, TX, United States
 PATENT ASSIGNEE(S): Agennix, Inc., Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5955316		19990921
APPLICATION INFO.:	US 1996-691123		19960801 (8)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1994-303009, filed on 2 Nov 1994, now patented, Pat. No. US 5571697, issued on 5 Nov 1996 which is a continuation-in-part of Ser. No. US 1993-145681, filed on 28 Oct 1993, now patented, Pat. No. US 5571691, issued on 11 Nov 1996 And a continuation of Ser. No. US 1994-250308, filed on 27 May 1994, now patented, Pat. No. US 5571896, issued on 5 Nov 1996 which is a continuation-in-part of Ser. No. US 1992-873304, filed on 24 Apr 1992, now abandoned, said Ser. No. US 145681 which is a continuation-in-part of Ser. No. US 1992-967947, filed on 27 Oct 1992, now abandoned which is a continuation of Ser. No. US		

1989-348270, filed on 5 May 1989, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.
ASSISTANT EXAMINER: Moore, William W.
LEGAL REPRESENTATIVE: Halluin, Albert P. Howrey & Simon
NUMBER OF CLAIMS: 55
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 17 Drawing Figure(s); 59 Drawing Page(s)
LINE COUNT: 2071
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 5 OF 9 USPATFULL on STN

TI Use of lactoferrin to modulate and/or neutralize heparin activity
AB A method for modulating, regulating and/or neutralizing heparin-dependent anticoagulant reactions by administration of lactoferrin or polypeptide fragments thereof. Said method may be used to correct the "heparin-induced" prolongation of blood coagulation and other coagulopathies in cardiopulmonary bypass, cardiac catheterization and hemodialysis patients. Said method may further be used to treat disorders and diseases related to unregulated or unmodulated heparin activity. Said method of treatment is comprised of administration of lactoferrin or fragments thereof comprised of the heparin binding domain(s) of lactoferrin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 1998:9474 USPATFULL
TITLE: Use of lactoferrin to modulate and/or neutralize heparin activity
INVENTOR(S): Wu, Hai-Feng, Carrboro, NC, United States
Church, Frank Clement, Chapel Hill, NC, United States
PATENT ASSIGNEE(S): University of North Carolina, Chapel Hill, NC, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5712247		19980127
APPLICATION INFO.:	US 1995-391986		19950221 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Tsang, Cecilia J.		
ASSISTANT EXAMINER:	Borin, Michael		
LEGAL REPRESENTATIVE:	Myers Bigel Sibley & Sajovec, LLP		
NUMBER OF CLAIMS:	8		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	20 Drawing Figure(s); 10 Drawing Page(s)		
LINE COUNT:	1266		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 6 OF 9 USPATFULL on STN

TI Expression of processed recombinant lactoferrin and lactoferrin polypeptide fragments from a fusion product in Aspergillus
AB The subject invention provides for the production of lactoferrins and lactoferrin polypeptide fragments using the host cells Aspergillus in combination with novel plasmid constructs. More specifically, the subject invention provides novel vector constructs capable of producing lactoferrins and lactoferrin polypeptide fragments in Aspergillus host cells. More particularly, the subject invention provides for novel plasmid constructs suitable for use with Aspergillus and especially Aspergillus awamori, niger and oryzae host cells, which enables them to produce large amounts of recombinant lactoferrins and lactoferrin polypeptide fragments.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 96:101465 USPATFULL
TITLE: Expression of processed recombinant lactoferrin and
lactoferrin polypeptide fragments from a fusion product
in Aspergillus
INVENTOR(S): Conneely, Orla M., Houston, TX, United States
Headon, Denis R., Galway, Ireland
O'Malley, Bert W., Houston, TX, United States
PATENT ASSIGNEE(S): Baylor College of Medicine Texas Medical Center,
Houston, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5571697		19961105
APPLICATION INFO.:	US 1994-303009		19941102 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1993-145681, filed on 28 Oct 1993 And a continuation of Ser. No. US 1994-250308, filed on 27 May 1994 which is a continuation-in-part of Ser. No. US 1992-873304, filed on 24 Apr 1992, now abandoned, said Ser. No. US -145681 which is a continuation-in-part of Ser. No. US 1992-967947, filed on 27 Oct 1992, now abandoned which is a continuation of Ser. No. US 1989-348270, filed on 5 May 1989, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Moore, William W.		
LEGAL REPRESENTATIVE:	Halluin, Albert P. Pennie & Edmonds		
NUMBER OF CLAIMS:	74		
EXEMPLARY CLAIM:	36		
NUMBER OF DRAWINGS:	61 Drawing Figure(s); 60 Drawing Page(s)		
LINE COUNT:	2291		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L1 ANSWER 7 OF 9 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
TI Recombinant human milk proteins - an opportunity and a challenge;
beta-casein, kappa-casein, epidermal growth factor, insulin-like
growth factor, cytokine, alpha-lactalbumin, lysozyme, lactoferrin
expression in transgenic animal milk; a review (conference paper)
AN 1996-07387 BIOTECHDS
AB Human recombinant milk proteins are reviewed with respect to: functions
of human milk proteins; human recombinant milk proteins (human
alpha-lactalbumin, lysozyme (EC-3.2.1.17), lactoferrin, beta-casein,
kappa-casein, epidermal growth factor, insulin-like growth factor,
cytokine, etc., gene cloning and characterization); expression systems
for human recombinant milk proteins (e.g. beta-casein expression in
bacterial cells, human lactoferrin and beta-casein expression in
Saccharomyces cerevisiae, **human lactoferrin**
production in Aspergillus nidulans, Aspergillus oryzae or BHK
cell culture); evaluation of the activity of recombinant human milk
proteins; and human recombinant milk proteins in infant formula. The
glycosylation and phosphorylation patterns in recombinant and native
proteins may differ, affecting protein activity. Tissue-specific gene
expression of human milk proteins in transgenic animals should give
recombinant proteins with glycans and phosphorylation patterns more like
those of human milk proteins. Transgenic mice and sheep, pig and cattle
transgenic animals may be used for human milk protein production. (63
ref)

ACCESSION NUMBER: 1996-07387 BIOTECHDS

TITLE: Recombinant human milk proteins - an opportunity and a
challenge;
beta-casein, kappa-casein, epidermal growth factor,

insulin-like growth factor, cytokine, alpha-lactalbumin, lysozyme, lactoferrin expression in transgenic animal milk; a review (conference paper)

AUTHOR: Lonnerdal B
CORPORATE SOURCE: Univ. California
LOCATION: Department of Nutrition, University of California, Davis, CA 95616, USA.
SOURCE: Am.J.Clin.Nutr.; (1996) 63, 4, 622S-626S
CODEN: AJCNAC
ISSN: 0002-9165
Genetic Engineering - Opportunities and Challenges in Infant Nutrition Symposium, Palm Beach, FL, 1-4 December, 1994.
DOCUMENT TYPE: Journal
LANGUAGE: English

L1 ANSWER 8 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI High expression of a human lactoferrin in transgenic tobacco cell cultures.

AB Transgenic Nicotiana tabacum cell lines were developed expressing the human lactoferrin gene driven by the oxidative stress-inducible peroxidase (SWPA2) promoter. Western blot analysis showed the accumulation of both the full-length human lactoferrin protein as well as a immuno-reactive truncated fragment. Accumulation of human lactoferrin as monitored by ELISA increased proportionally to cell growth and reached a maximal (up to 4.3% of total soluble proteins) at the stationary phase of growth. Protein extracts from transgenic tobacco cells exhibited antibacterial activity.

ACCESSION NUMBER: 2003:212764 BIOSIS
DOCUMENT NUMBER: PREV200300212764
TITLE: High expression of a human lactoferrin in transgenic tobacco cell cultures.
AUTHOR(S): Choi, Sun-Mee; Lee, Ok-Sun; Kwon, Suk-Yoon; Kwak, Sang-Soo; Yu, Dae-Yeul; Lee, Haeng-Soon [Reprint Author]
CORPORATE SOURCE: Laboratory of Plant Cell Biotechnology, Korea Research Institute of Bioscience and Biotechnology (KRIBB), Oun-Dong 52, Yusong, Daejeon, 305-806, South Korea
hslee@kribb.re.kr
SOURCE: Biotechnology Letters, (February 2003) Vol. 25, No. 3, pp. 213-218. print.
CODEN: BILED3. ISSN: 0141-5492.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 30 Apr 2003
Last Updated on STN: 30 Apr 2003

L1 ANSWER 9 OF 9 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI **Human lactoferrin: Production** at large scale, characterization and applications.

ACCESSION NUMBER: 2000:453055 BIOSIS
DOCUMENT NUMBER: PREV200000453055
TITLE: **Human lactoferrin: Production** at large scale, characterization and applications.
AUTHOR(S): Headon, Denis R. [Reprint author]
CORPORATE SOURCE: Agennix Inc., 7505 Fannin, Suite 510, Houston, TX, 77054, Japan
SOURCE: Shimazaki, Kei-ichi; Tsuda, Hiroyuki; Tomita, Mamoru; Kuwata, Tamotsu; Perraudin, Jean-Paul. Int. Congr. Ser. - Excerpta Med., (2000) pp. 415-427. International Congress Series; Lactoferrin: Structure, function and applications. print.
Publisher: Elsevier Science B.V., Sara Burgerhartstraat 25, 1000 AE, Amsterdam, Netherlands. Series: International Congress Series.

Meeting Info.: 4th International Conference on Lactoferrin:
Structure, function and applications. Sapporo, Japan. May
18-22, 1999.
CODEN: EXMDA4. ISSN: 0531-5131. ISBN: 0-444-50317-X
(cloth).

DOCUMENT TYPE: Book
Conference; (Meeting)
Book; (Book Chapter)
Conference; (Meeting Paper)
LANGUAGE: English
ENTRY DATE: Entered STN: 25 Oct 2000
Last Updated on STN: 10 Jan 2002

=> e headon, d/au

E1	1	HEADON R J/AU
E2	2	HEADON RANDALL G/AU
E3	0 -->	HEADON, D/AU
E4	1	HEADOND R/AU
E5	14	HEADRAPSON A G/AU
E6	1	HEADRAPSON H E/AU
E7	1	HEADRICH H/AU
E8	2	HEADRICH J/AU
E9	1	HEADRICH J P/AU
E10	1	HEADRICH R H/AU
E11	2	HEADRICK/AU
E12	2	HEADRICK A/AU

=> e 'conneely, o/au

E1	4	CONNELLY SHANE/AU
E2	1	CONNELLY T/AU
E3	0 -->	CONNELLY, O/AU
E4	1	CONNEN L W/AU
E5	1	CONNEN R L/AU
E6	1	CONNEN ROBERT L/AU
E7	8	CONNEN S/AU
E8	3	CONNEN T F/AU
E9	2	CONNEN T P/AU
E10	4	CONNEFF M/AU
E11	1	CONNEHAY P/AU
E12	23	CONNEHAYE P/AU

=> e omalley, b/au

E1	1	OMALLEY W R/AU
E2	1	OMALLEY Y Q/AU
E3	0 -->	OMALLEY, B/AU
E4	1	OMALLY B/AU
E5	1	OMALLY G J/AU
E6	1	OMALOKOHO T/AU
E7	17	OMALU B/AU
E8	31	OMALU B I/AU
E9	7	OMALU BENNET/AU
E10	18	OMALU BENNET I/AU
E11	3	OMALU BENNETT/AU
E12	1	OMALU F/AU

=> may, g/au

MAY, IS NOT A RECOGNIZED COMMAND
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"HELP COMMANDS" at an arrow prompt (=>).

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E1 1 MAY ZOLTAN/AU
 E2 5 MAY ZSOLT/AU
 E3 0 --> MAY, G/AU
 E4 14 MAYA/AU
 E5 103 MAYA A/AU
 E6 1 MAYA A B/AU
 E7 9 MAYA A B S/AU
 E8 1 MAYA A F/AU
 E9 4 MAYA A G/AU
 E10 8 MAYA A J/AU
 E11 1 MAYA A L/AU
 E12 1 MAYA A M/AU

=> d his

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FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOTECHDS, BIOSIS, SCISEARCH' ENTERED AT 17:29:24 ON 14 OCT 2005

L1 9 S HUMAN LACTOFERRIN PRODUCTION
 E HEADON, D/AU
 E CONNEELY, O/AU
 E OMALLEY, B/AU
 E MAY, G/AU

=> s plasmic vector

L2 31 PLASMIC VECTOR

=> d his

(FILE 'HOME' ENTERED AT 17:28:41 ON 14 OCT 2005)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, BIOTECHDS, BIOSIS, SCISEARCH' ENTERED AT 17:29:24 ON 14 OCT 2005

L1 9 S HUMAN LACTOFERRIN PRODUCTION
 E HEADON, D/AU
 E CONNEELY, O/AU
 E OMALLEY, B/AU
 E MAY, G/AU

L2 31 S PLASMIC VECTOR

=> s l2 and l1

L3 0 L2 AND L1

=> s lactoferrin and production

L4 4191 LACTOFERRIN AND PRODUCTION

=> s l4 and l2

L5 2 L4 AND L2

=> d l5 ti abs ibib tot

L5 ANSWER 1 OF 2 USPATFULL on STN

TI **Production of recombinant lactoferrin and lactoferrin polypeptides using cDNA sequences in various organisms**

AB The verified cDNA sequences for human, bovine and porcine **lactoferrin** protein have been used to prepare recombinant **lactoferrin** for therapeutic and nutritional applications. Regions of the cDNA such as the Fe binding sites can be used to make an hLF polypeptide product

The present invention provides novel plasmids, transfected eucaryotic

cells and methods of producing these plasmids and transfected eucaryotic cells. The novel plasmid contains the cDNA for **lactoferrin** protein. Methods for the **production of lactoferrin** protein in fungi and bacteria are also provided. Thus, the present invention provides an efficient and economical means for the **production of recombinant lactoferrin** protein and **lactoferrin** related polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:75249 USPATFULL

TITLE: **Production of recombinant lactoferrin and lactoferrin polypeptides using cDNA sequences in various organisms**

INVENTOR(S):
 Conneely, Orla M., Houston, TX, UNITED STATES
 Headon, Denis R., Galway, IRELAND
 O'Malley, Bert W., Houston, TX, UNITED STATES
 May, Gregory S., Houston, TX, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005064546	A1	20050324
APPLICATION INFO.:	US 2003-620256	A1	20030715 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-633739, filed on 7 Aug 2000, GRANTED, Pat. No. US 6635447 Division of Ser. No. US 1995-456108, filed on 30 May 1995, GRANTED, Pat. No. US 6100054 Division of Ser. No. US 1993-145681, filed on 28 Oct 1993, GRANTED, Pat. No. US 5571691 Continuation-in-part of Ser. No. US 1992-967947, filed on 27 Oct 1992, ABANDONED Continuation of Ser. No. US 1989-348270, filed on 5 May 1989, ABANDONED Continuation-in-part of Ser. No. US 1992-873304, filed on 24 Apr 1992, ABANDONED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	FULBRIGHT & JAWORSKI, LLP, 1301 MCKINNEY, SUITE 5100, HOUSTON, TX, 77010-3095		
NUMBER OF CLAIMS:	18		
EXEMPLARY CLAIM:	CLM-01-23		
NUMBER OF DRAWINGS:	65 Drawing Page(s)		
LINE COUNT:	1853		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 2 USPATFULL on STN

TI **Production of recombinant lactoferrin and lactoferrin polypeptides using cDNA sequences in various organisms**

AB The verified cDNA sequences for human, bovine and porcine **lactoferrin** protein have been used to prepare recombinant **lactoferrin** for therapeutic and nutritional applications. Regions of the cDNA such as the Fe binding sites can be used to make an hLF polypeptide product.

The present invention provides novel plasmids, transfected eucaryotic cells and methods of producing these plasmids and transfected eucaryotic cells. The novel plasmid contains the cDNA for **lactoferrin** protein. Methods for the **production of lactoferrin** protein in fungi and bacteria are also provided. Thus, the present invention provides an efficient and economical means for the **production of recombinant lactoferrin** protein and **lactoferrin** related polypeptides.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:279095 USPATFULL

TITLE: **Production of recombinant lactoferrin and lactoferrin polypeptides using cDNA sequences in various organisms**

INVENTOR(S): **Conneely, Orla M., Houston, TX, United States**
Headon, Denis R., Galway, IRELAND
O'Malley, Bert W., Houston, TX, United States
May, Gregory S., Houston, TX, United States

PATENT ASSIGNEE(S): **Baylor College of Medicine, Houston, TX, United States**
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6635447	B1	20031021
APPLICATION INFO.:	US 2000-633739		20000807 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 1995-456108, filed on 30 May 1995, now patented, Pat. No. US 6100054 Division of Ser. No. US 1993-145681, filed on 28 Oct 1993, now patented, Pat. No. US 5571691 Continuation-in-part of Ser. No. US 1992-967947, filed on 27 Oct 1992, now abandoned Continuation of Ser. No. US 1989-348270, filed on 5 May 1989, now abandoned Continuation of Ser. No. US 633738 Continuation-in-part of Ser. No. US 1992-878307, filed on 24 Apr 1992, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	GRANTED		
PRIMARY EXAMINER:	Low, Christopher S. F.		
ASSISTANT EXAMINER:	Robinson, Hope A.		
LEGAL REPRESENTATIVE:	Fulbright & Jaworski, L.L.P.		
NUMBER OF CLAIMS:	11		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	70 Drawing Figure(s); 65 Drawing Page(s)		
LINE COUNT:	1834		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			

Refine Search

Search Results -

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DATE: Friday, October 14, 2005 [Printable Copy](#) [Create Case](#)

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<u>L10</u>	L9 and l4	7	<u>L10</u>
<u>L9</u>	L8 and plasmic vector	155691	<u>L9</u>
<u>L8</u>	L7 and Kluyveromyces	237	<u>L8</u>
<u>L7</u>	L6 and Aspergillus	1114	<u>L7</u>
<u>L6</u>	L5 and SF9	5121	<u>L6</u>
<u>L5</u>	l1 and immortalized cell	491419	<u>L5</u>
<u>L4</u>	L3 and l1	7	<u>L4</u>
<u>L3</u>	may.in.	4061	<u>L3</u>
<u>L2</u>	6635447.pn.	1	<u>L2</u>
<u>L1</u>	lactoferrin and production	710	<u>L1</u>

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☐ 1. Document ID: US 6635447 B1

L4: Entry 1 of 7

File: USPT

Oct 21, 2003

US-PAT-NO: 6635447

DOCUMENT-IDENTIFIER: US 6635447 B1

**** See image for Certificate of Correction ****

TITLE: Production of recombinant lactoferrin and lactoferrin polypeptides using cDNA sequences in various organisms

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conneely; Orla M.	Houston	TX		
Headon; Denis R.	Galway			IE
O'Malley; Bert W.	Houston	TX		
May; Gregory S.	Houston	TX		

US-CL-CURRENT: 435/69.1; 435/252.2, 435/320.1, 435/325, 435/6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Desc	Ima
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☐ 2. Document ID: US 6228614 B1

L4: Entry 2 of 7

File: USPT

May 8, 2001

US-PAT-NO: 6228614

DOCUMENT-IDENTIFIER: US 6228614 B1

TITLE: Production of recombinant lactoferrin and lactoferrin polypeptides using cDNA sequences in various organisms

DATE-ISSUED: May 8, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conneely; Orla M.	Houston	TX		
Headon; Denis R.	Houston	TX		
O'Malley; Bert W.	Houston	TX		
May; Gregory S.	Houston	TX		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 530/400, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw Desc	Ima
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☐ 3. Document ID: US 6100054 A

US-PAT-NO: 6100054
DOCUMENT-IDENTIFIER: US 6100054 A

TITLE: Production for recombinant lactoferrin and lactoferrin polypeptides using DNA sequences in various organisms

DATE-ISSUED: August 8, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conneely; Orla M.	Houston	TX		
Headon; Denis R.	Galway			IE
O'Malley; Bert W.	Houston	TX		
May; Gregory S.	Houston	TX		

US-CL-CURRENT: 435/69.1; 435/254.11, 435/254.21, 435/254.23, 435/254.3, 435/320.1, 530/324, 530/350, 530/400, 530/412, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Ima
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☐ 4. Document ID: US 5849881 A

L4: Entry 4 of 7

File: USPT

Dec 15, 1998

US-PAT-NO: 5849881
DOCUMENT-IDENTIFIER: US 5849881 A
** See image for Certificate of Correction **

TITLE: Production of recombinant lactoferrin and lactoferrin polypeptides using cDNA sequences in various organisms

DATE-ISSUED: December 15, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conneely; Orla M.	Houston	TX	77025	
Headon; Denis R.	Galway			IE
O'Malley; Bert W.	Houston	TX	77079	
May; Gregory S.	Houston	TX	77030	

US-CL-CURRENT: 530/400; 435/252.3, 435/254.11, 435/254.21, 435/254.23, 435/254.3, 435/320.1, 435/69.1, 530/324, 530/350 , 530/412, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Ima
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☐ 5. Document ID: US 5766939 A

L4: Entry 5 of 7

File: USPT

Jun 16, 1998

US-PAT-NO: 5766939
DOCUMENT-IDENTIFIER: US 5766939 A

TITLE: Production of recombinant lactoferrin and lactoferrin polypeptides using CDNA sequences in various organisms

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conneely; Orla M.	Houston	TX		
Headon; Denis R.	Galway			IE
O'Malley; Bert W.	Houston	TX		
May; Gregory S.	Houston	TX		

US-CL-CURRENT: 435/320.1; 435/252.33, 435/69.1, 530/324, 530/350, 530/400, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Ima
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☐ 6. Document ID: US 5571896 A

L4: Entry 6 of 7

File: USPT

Nov 5, 1996

US-PAT-NO: 5571896

DOCUMENT-IDENTIFIER: US 5571896 A

TITLE: Production of recombinant human lactoferrin

DATE-ISSUED: November 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conneely; Orla M.	Houston	TX		
Headon; Denis R.	Galway			IE
O'Malley; Bert W.	Houston	TX		
May; Gregory S.	Houston	TX		

US-CL-CURRENT: 530/400; 435/254.11, 435/254.2, 435/254.21, 435/254.23, 435/254.3,
435/320.1, 435/69.1, 435/69.7, 530/395 , 530/412, 536/23.4, 536/23.5, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Ima
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☐ 7. Document ID: US 5571691 A

L4: Entry 7 of 7

File: USPT

Nov 5, 1996

US-PAT-NO: 5571691

DOCUMENT-IDENTIFIER: US 5571691 A

TITLE: Production of recombinant lactoferrin and lactoferrin polypeptides using CDNA sequences in various organisms

DATE-ISSUED: November 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Conneely; Orla M.	Houston	TX		
Headon; Denis R.	Galway			IE
O'Malley; Bert W.	Houston	TX		
May; Gregory S.	Houston	TX		

US-CL-CURRENT: 435/69.1; 435/252.3, 435/320.1, 435/325, 435/348, 530/395, 530/400,

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	WMC	Draw Desc	Ima
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